

**WHAT IS CLAIMED IS:**

1       1. For use in association with a subscriber premises, an  
2       apparatus for interconnecting a plurality of communications  
3       mediums, comprising:

4               a controller for coupling and de-coupling said plurality  
5       of communications mediums to a communication system disposed within  
6       said subscriber premises, wherein said communications mediums  
7       comprise at least one public service telephone network line and at  
8       least one non-public service telephone network line,;

9               a detector circuit for detecting a loss of power to said  
10      at least one non-public service telephone line and in response to  
11      said loss of power, utilizing at least one relay device to connect  
12      said non-public service telephone line to said at least one public  
13      service telephone network line; and

14               a backup power supply comprising:

15               a controller for operating said backup power supply,  
16       controlling said backup power supply temperature and enabling  
17       said AC/DC adapter to charge said backup power supply;

18               a temperature sensing circuit for monitoring said  
19       backup power supply operating temperature; and

20               a voltage measuring circuit for monitoring said  
21       backup power supply voltage.

1           2. The interconnect apparatus as set forth in Claim 1  
2 further comprising interconnection with a radio frequency  
3 transceiver for transmitting and receiving wireless communications  
4 from a wireless network.

1           3. The interconnect apparatus as set forth in Claim 2  
2 wherein said wireless network is a fixed wireless network.

1           4. The interconnect apparatus as set forth in Claim 1  
2 further comprising a broadband interface for transmitting and  
3 receiving broadband data communications including cable modem,  
4 digital subscriber line, fiber optic and wireless broadband.

1           5. The interconnect apparatus as set forth in Claim 1  
2 further comprising a switch for connecting said non-public service  
3 telephone network with said public service telephone network.

1           6. The interconnect apparatus as set forth in Claim 5  
2 further comprising a telemetry/control circuit for remotely  
3 monitoring and controlling said backup battery power supply.

1        7. The interconnect apparatus as set forth in Claim 1  
2 further comprising an interface for receiving said at least one  
3 standard voice frequency communication line that is connected to  
4 the public service telephone network and said at least one non-  
5 public service telephone network communication line.

1        8. For use in association with a wireless network, an  
2 apparatus comprising:

3                an access processor for interconnecting said wireless  
4 network with said public service telephone network;

5                a plurality of remote base transceiver stations connected  
6 to said access processor via remote modems wherein said remote  
7 modems communicate via an air interface with multiple individual  
8 subscriber interface access devices associated with respective  
9 subscriber premises; and

10               an apparatus for interconnecting a plurality of  
11 communications mediums at said subscriber premises, comprising:

12               a controller for coupling and de-coupling said  
13 plurality of communications mediums to a communication system  
14 disposed within said subscriber premises, wherein said  
15 communications mediums comprise at least one public service  
16 telephone network line and at least one non-public service  
17 telephone network line,;

18               a detector circuit for detecting a loss of power to said  
19 at least one non-public service telephone line and in response  
20 to said loss of power, utilizing at least one relay device for  
21 connecting said non-public service telephone line to said at  
22 least one public service telephone network line; and

23                   a backup power supply comprising:

24                    a controller for operating a said backup power  
25                    supply, controlling said backup power supply  
26                    temperature and enabling said AC/DC adapter to  
27                    charge said backup power supply;

28                    a temperature sensing circuit for monitoring said  
29                    backup power supply operating temperature; and

30                    a voltage measuring circuit for monitoring said  
31                    backup power supply voltage.

1350               9. The apparatus as set forth in Claim 8 wherein said

2000                wireless network is a fixed wireless network.

1350               10. The apparatus as set forth in Claim 8 further comprising

2000                interconnection with a radio frequency transceiver for transmitting  
3                    and receiving wireless communications from a wireless network.

1               11. The apparatus as set forth in Claim 8 further comprising

2                a broadband interface for transmitting and receiving broadband data  
3                communications including cable modem, digital subscriber line,  
4                fiber optic and wireless broadband.

1           12. The apparatus as set forth in Claim 8 further comprising  
2       a switch for connecting said non-public service telephone network  
3       with said public service telephone network.

1           13. The apparatus as set forth in Claim 8 further comprising  
2       a telemetry/control circuit for remotely monitoring and controlling  
3       said backup power supply.

1           14. The apparatus as set forth in Claim 8 further comprising  
2       an interface for receiving at least one standard voice frequency  
3       communication line that is connected to the public service  
4       telephone network and at least one said non-public service  
5       telephone network communication line.

1           15. For use in a fixed wireless network, a method for  
2 interconnecting a plurality of communications mediums at a  
3 subscriber's premises, comprising the steps of:

4           coupling and de-coupling said plurality of communications  
5 mediums, to a communication system disposed within said subscriber  
6 premises, wherein said communications mediums comprise at least one  
7 public service telephone network line and at least one non-public  
8 service telephone network line,;

9           detecting a loss of power to said at least one non-public  
10 service telephone line and in response to said loss of power,  
11 switching said non-public service telephone line to said at least  
12 one public service telephone network line; and

13           utilizing a backup power supply connected to an AC/DC  
14 adapter, comprising:

15           a controller for operating said DC battery power  
16 supply, controlling said baackup power supply temperature  
17 and enabling said AC/DC adapter to charge said backup  
18 power supply;

19           a temperature sensing circuit for monitoring said  
20 backup power supply operating temperature; and

21           a voltage measuring circuit for monitoring said  
backup power supply voltage.

1        16. The method as set forth in Claim 15 further comprising  
2 transmitting and receiving wireless communications from a wireless  
3 network.

1        17. The method as set forth in Claim 15 further comprising  
2 the steps of transmitting and receiving broadband data  
3 communications including cable modem, digital subscriber line,  
4 fiber optic and wireless broadband via a broadband interface  
5 interconnected with said controller.

1        18. The method as set forth in Claim 1 further comprising the  
2 step of  
3                connecting said non-public service telephone network with  
4                said public service telephone network; and  
5                remotely monitoring and controlling said backup power  
6 supply.

1       19. The method as set forth in Claim 1 further comprising the  
2       step of providing a fail-over connection between said at least one  
3       primary public service telephone network line and all said non-  
4       public service telephone network lines utilizing at least one relay  
5       device.

1       20. The method as set forth in Claim 1 further comprising  
2       connecting at least one standard voice frequency communication and  
3       at least one non-public service telephone network line to an  
4       interface that is connected to said subscriber premises.